CLAIMS

- 1. Process for the preparation of the facial isomer of tris(8-oxoquinoline)aluminum(III) (Alq₃), comprising the step of heating α -Alq₃ in solid phase at a temperature equal to or higher than 350°C but lower than 420°C, to obtain a mixture of γ -Alq₃ and δ -Alq₃.
- 2. The process according to claim 1, further comprising a step of suspending said mixture in an organic solvent and keeping said suspension at ambient temperature.
- 3. The process according to claim 2, wherein said organic solvent is acetone.
 - 4. Process for obtaining a thin film of the facial Alq₃, comprising the steps of preparation of a solution of facial Alq₃ in a solvent, at a temperature lower than -10° C, application of a thin layer of such solution onto a substrate, and evaporation of the solvent to obtain a thin film.
 - 5. The process according to claim 3, wherein said solvent is CHCl₃.

15

- 6. Process for obtaining a thin film of facial Alq₃, comprising the step of heating a thin film of meridianal Alq₃ at a temperature in the range from 390 to 420°C.
 - 7. Blue emitting electroluminescent device based on facial Alq₃.
- 8. Use of facial Alq₃ for making electroactive devices suitable for charge transport and/or recombination and/or for light emission.